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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/834,950	04/16/2001	Yoshihiko Yano	206138US0	5372

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1940 DUKE STREET
ALEXANDRIA, VA 22314

EXAMINER

THOMPSON, CAMIE S

ART UNIT	PAPER NUMBER
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1774

DATE MAILED: 01/27/2003

9

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/834,950

Applicant(s)

YANO, YOSHIHIKO

Examiner

Camie S Thompson

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,3-6 and 8 is/are pending in the application.
- 4a) Of the above claim(s) 7 is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1,3-6 and 8 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) ____.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

DETAILED ACTION

1. Applicant's amendment and accompanying remarks filed on November 12, 2002 have been acknowledged.
2. Examiner acknowledges cancelled claim 2 and amended claims 1 and 3-6.
3. Examiner acknowledges newly added claim 8.
4. The objection to the specification is withdrawn due to applicant's amended abstract.
5. The objection to the claims for not being on a separate sheet of paper is withdrawn due to applicant's amended specification.
6. Applicant argues the restriction requirement. The fluorescent thin film can be made by another method. Further, the search required for each grouping is different.

The requirement is still deemed proper and therefore is made **FINAL**.
7. The rejection of claims 1,3 and 5-6 under 35 U.S.C 102(b) as being anticipated by Chadha, U.S. Patent Number 5,662,831 is withdrawn due to applicant's amended claim 1 and arguments.
8. The rejection of claims 1,3 and 5 under 35 U.S.C. 102(b) as being anticipated by Harkonen et al., U.S. Patent Number 5,314,759 is withdrawn due to applicant's arguments.
9. The rejection of claims 1,3 and 5-6 under 35 U.S.C 102(e) as being anticipated by Hampden-Smith et al., U.S. Patent Number 6,153,123 is withdrawn due to applicant's argument.

Claim Rejections - 35 USC § 103

10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

11. Claims 1, 3-6 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Harkonen et al., U.S. Patent Number 5,314,759.

Harkonen discloses the use of a phosphor layer in a thin-film electroluminescent display having a host material that can be fabricated as a mixed compound of group II-IV compounds, oxides, oxysulfides or sulfides of rare earths as well as aluminates and gallates such as lanthanum aluminate with europium or cerium as the luminescent center as per instant claims 1,3 and 5-6 (see column 4, lines 41-47 and column 5, lines 25-64). The reference does not specifically disclose a rare earth thioaluminate such as lanthanum thioaluminate as per instant claims 1 and 4. However, the reference does disclose that the group II-IV compounds can be mixed with oxysulfides of rare earths as well as aluminates in order to increase an energy level to greater than 2eV for brighter light emission. The aforementioned mixture is inclusive of rare earth thioaluminates as claimed. Therefore, it would have been obvious to one of ordinary skill in the art to have a mixed compound of a rare earth thioaluminate such as lanthanum thioaluminate in order to have brighter emission for the display panel as shown by the Harkonen reference in column 4, lines 16-39.

12. Applicant's arguments with respect to claims 1, 3-6 and 8 have been considered but are moot in view of the new ground(s) of rejection.

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13. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communication from the examiner should be directed to Camie S. Thompson whose telephone number is (703) 305-4488. The examiner can normally be reached on Monday through Friday from 7:30 am to 4:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cynthia H. Kelly, can be reached at (703) 308-0449. The fax phone numbers for the Group are (703) 872-9310 {before finals} and (703) 872-9311 {after finals}.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0661.

CYNTHIA H. KELLY
SUPERVISOR
TELEPHONE

Cynthia H. Kelly